



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010614  
CERTIFICATION DATE: August 15, 2013  
DATE RECERTIFICATION DUE: February 11, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

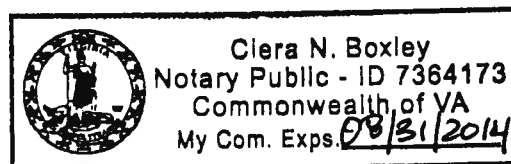
Melissa Kennedy  
Section Supervisor, Breath Alcohol

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 26<sup>th</sup> day of August, 2013 by Melissa Kennedy

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH  
Nash

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 8/16/2013**

**Instrument Serial Number: 010614**

**As of 16-Aug-13**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
15-Aug-13	15-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
27-Feb-13	27-Feb-13	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
06-Sep-12	06-Sep-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
20-Aug-12	21-Mar-12	HMS (18910)	REPLACED PRINTER.
21-Mar-12	21-Mar-12	HMS (18910)	CERTIFIED
23-Feb-12	23-Feb-12	DBH (21250)	CERTIFIED
28-Dec-11	28-Dec-11	MSK (21355)	CALIBRATED AND CERTIFIED.
10-Nov-11	10-Nov-11	DBH (21250)	REALIGNED PURGE FAN. CLEANED INTERNAL INSTRUMENT HOUSING. CERTIFIED
15-Jun-11	15-Jun-11	DBH (21250)	CALIBRATED AND CERTIFIED.
15-Jun-11	15-Jun-11	DBH (21250)	CERTIFIED
03-Jan-11	03-Jan-11	DBH (21250)	CERTIFIED
08-Sep-10	03-Aug-10	DBH (21250)	REPLACED DRY GAS STANDARD
03-Aug-10	03-Aug-10	DBH (21250)	CALIBRATED AND CERTIFIED.
06-Jul-10	06-Jul-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
07-Jun-10	12-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD
12-Jan-10	12-Jan-10	DBH (21250)	CERTIFIED
03-Aug-09	03-Aug-09	DBH (21250)	CALIBRATED AND CERTIFIED.
09-Mar-09	09-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
15-Dec-08	15-Dec-08	DBH (21250)	CERTIFIED.
20-Nov-08	20-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
NHL

## INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010614 Worksheet Start Date 8/15/2013

Location Loudoun CO ADC

Address 42035 Loudoun Center Place Leesburg VA 20175

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

### Site Specifications

Yes

No

**1 Secured Environment:**

Location must not be accessible to the general public.

☒

☐

**2 Environment free from contaminants**

☒

☐

**3 Dedicated telephone line:**

The phone line should be used solely by the instrument.

☒

☐

**4 Adequate Ventilation:**

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒

☐

**5 Stable temperature controls:**

The instrument should not be exposed to direct sources of temperature variation.

☒

☐

**6 115VAC power source:**

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒

☐

**7 Room Condition:**

The site should be free of excessive moisture, heat and dust.

☒

☐

Old serial no.

New serial no.

E-Seek  
Keyboard  
Printer  
UPS

Supplies

Mouthpieces

Certificates of Analysis

Operator Worksheet

Other:

300

300

300

Maintenance (if any)

Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010614

Certification Date 8/15/2013

Instrument Barometer (mm HG) 755

Reference Barometer (mm HG) 759

Reference Barometer(RB)Serial # 009110

RB Calibration Due 5/30/2014

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.245
0.250	0.248	0.240	0.255	<b>Sample 2</b>	0.244
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.244
0.001		0.244	0.245		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.148
0.150	0.149	0.144	0.153	<b>Sample 2</b>	0.147
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.147
0.001		0.147	0.148		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.080	0.077	0.083	<b>Sample 2</b>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.079
0		0.079	0.079		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG316301-03

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.098
0.100	0.099	0.096	0.102	<b>Sample 2</b>	0.098
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.098
0		0.098	0.098		

DFS Technician

*Donald B. Hall*

Date

8/16/13

Issuing Analyst

*Melissa Kennedy*

Date

8/21/13

Intox EC/IR II QA Worksheet  
 Issued by Calibration and Training Program Manager  
 Issue Date: 4-March-2013

DFS Document 250-F113  
 Revision 6  
 Page 2 of 2

D.B.

MOK



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  HALL, DONALD, B		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  21250	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  08/15/2013
TEST EQUIPMENT NUMBER  010614		

RESULTS: TIME SAMPLE TAKEN 11:01 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 16 Aug 2013 at 10:24

DBH  
Wsk

## Test Results

Instrument Serial Number 010614

Test # 001542 Subject Test

Test Location 1 Department of

Test Date 15 Aug 2013

Test Location 2 Forensic Science

Test Time 10:54

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name HALL

Agency DFS Central Lab

Card Serial Number 121250

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name DONALD

License Number 21250

Effective Date 10/01/2012

Operator's Middle Initial B

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 15 Aug 2013

End Time 11:02

Result Time 11:01

Result Date 15 Aug 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:55

Data Type BLK

Sample Value 0.000

Sample Time 10:55

Data Type CHK

Sample Value 0.103

Sample Time 10:56

Data Type BLK

Sample Value 0.000

Sample Time 10:58

Data Type SUBJ

Sample Value 0.000

Sample Time 10:58

Data Type BLK

Sample Value 0.000

Sample Time 10:59

Data Type SUBJ

Sample Value 0.000

Sample Time 11:01

Data Type BLK

Sample Value 0.000

Sample Time 11:02

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-20

Standard Expiration Date 10/01/2014

Tank Pressure 536

Barometric Pressure 756 mmHg

Blow Sample Number 1

Blow Duration 3.54 sec

Blow Volume 1719 cc

End-of-Blow Time 10:58

Blow Sample Number 2

Blow Duration 3.50 sec

Blow Volume 1783 cc

End-of-Blow Time 11:01

Tamper Evident Stamp 04a010a6

Test Status Code 0

Test Status Success

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010614

System Date: 08/15/2013

System Time: 11:28 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBF

NSH

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1543

Test Date: 08/15/2013      Test Time: 11:32 EDT

Dry Gas Target: 0.099

Lot Number: 0651210013-05      Exp Date: 04/01/2014

Tank Pressure: 487 psi      Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:32
CAL	0.099	11:33

Test Status: *Success*

Calibration CRC: F80233C6

DBH

MSK



**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1544  
Test Date: 08/15/2013      Test Time: 11:38 EDT

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 2961225012-10      Exp Date: 11/01/2014

Tank Pressure: 453 psi      Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:38
BLK	0.000	11:39
CHK	0.245	11:40
BLK	0.000	11:41
CHK	0.244	11:42
BLK	0.000	11:43
CHK	0.244	11:44
BLK	0.000	11:46

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1545  
Test Date: 08/15/2013      Test Time: 11:48 EDT

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 0651215014-07      Exp Date: 04/01/2014

Tank Pressure: 203 psi      Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:48
BLK	0.000	11:49
CHK	0.148	11:50
BLK	0.000	11:51
CHK	0.147	11:52
BLK	0.000	11:53
CHK	0.147	11:54
BLK	0.000	11:56

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1546  
Test Date: 08/15/2013      Test Time: 11:58 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0651208012-03      Exp Date: 04/01/2014

Tank Pressure: 419 psi      Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:58
BLK	0.000	11:59
CHK	0.079	12:00
BLK	0.000	12:01
CHK	0.079	12:02
BLK	0.000	12:03
CHK	0.079	12:04
BLK	0.000	12:05

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1547  
Test Date: 08/15/2013      Test Time: 12:08 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05      Exp Date: 04/01/2014

Tank Pressure: 296 psi      Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:08
BLK	0.000	12:09
CHK	0.019	12:10
BLK	0.000	12:11
CHK	0.019	12:12
BLK	0.000	12:13
CHK	0.019	12:14
BLK	0.000	12:15

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1548

Test Date: 08/15/2013      Test Time: 12:18 EDT

Dry Gas Target: 0.248

Lot Number: AG205404-03      Exp Date: 02/23/2014

Tank Pressure: 237 psi      Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:19
CHK	0.249	12:20
BLK	0.000	12:21
CHK	0.249	12:22
BLK	0.000	12:24
CHK	0.248	12:24

Test Status: *Success*

Calibration CRC: F80233C6

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010614      Test Number: 1549

Test Date: 08/15/2013      Test Time: 12:28 EDT

Dry Gas Target: 0.099

Lot Number: AG316301-03      Exp Date: 06/12/2015

Tank Pressure: 1115 psi      Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:29
CHK	0.098	12:30
BLK	0.000	12:31
CHK	0.098	12:32
BLK	0.000	12:33
CHK	0.098	12:34

Test Status: *Success*

Calibration CRC: F80233C6



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  HALL, DONALD, B		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  21250	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  08/15/2013
TEST EQUIPMENT NUMBER  010614		

RESULTS: TIME SAMPLE TAKEN 12:43 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 16 Aug 2013 at 10:24

DOH

not

## Test Results

Instrument Serial Number 010614

Test # 001550 Subject Test

Test Location 1 Department of  
Test Date 15 Aug 2013

Test Location 2 Forensic Science  
Test Time 12:36  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab  
Card Serial Number 121250  
Subject's Last Name INSTRUMENT  
Subject's Middle Initial  
Driver's License Number  
Driver's License State

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 15 Aug 2013 End Time 12:44

Result Time 12:43

Result Date 15 Aug 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:37

Data Type BLK

Sample Value 0.000

Sample Time 12:38

Data Type CHK

Sample Value 0.098

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:40

Data Type SUBJ

Sample Value 0.000

Sample Time 12:40

Data Type BLK

Sample Value 0.000

Sample Time 12:41

Data Type SUBJ

Sample Value 0.000

Sample Time 12:43

Data Type BLK

Sample Value 0.000

Sample Time 12:44

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-03

Standard Expiration Date 06/12/2015

Tank Pressure 1115

Barometric Pressure 755 mmHg

Blow Sample Number 1 Blow Duration 3.71 sec

Blow Volume 1781 cc End-of-Blow Time 12:40

Blow Sample Number 2 Blow Duration 3.81 sec

Blow Volume 1894 cc End-of-Blow Time 12:43

Tamper Evident Stamp c7b92a67

Test Status Code 0

Test Status Success